



PATENT

MS154756.01/MSFTP125US

CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-14501.

2-2-06  
Date:

Himanshu S. Amin  
Himanshu S. Amin

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of:

Applicant(s): Federico Garcea, *et al.*

Examiner: Haresh N. Patel

Serial No: 09/710,172

Art Unit: 2154

Filing Date: November 10, 2000

Title: SYSTEM FOR GATHERING AND AGGREGATING OPERATIONAL METRICS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

---

**SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. §1.131**

---

Dear Sir:

The undersigned declare as follows:

We are the inventors of the above-identified patent application. The subject matter claimed in the above-identified patent application was reduced to practice in the United States by a date prior to June 26, 2000.

Exhibit A is a copy of a specification document describing some of the features of Microsoft's Application Center 2000. A beta version of this software having these

features was reduced to practice prior to June 26, 2000. As shown in Section 0 "Design Summary" of Exhibit A, the LogQueryHelper component aggregates and formats query results and provides the results to the User Interface (UI). As specified in Section 0.3 "Aggregation" of Exhibit A, "for the cluster view, this includes rolling up results from all servers in the cluster into a single result set." As specified in Section 2.4 "Aggregating Data" of Exhibit A, "for the cluster view, these values matched across a time period need to be rolled." As indicated in the History Section of Exhibit A, this document was created on or before Dec. 8, 1999.


Exhibit B is a copy of Fig. 6A of U.S. Patent No. 6,789,046. This figure is a screen shot of the UI of a beta version of Microsoft's Application Center 2000 that was executing on Microsoft computers on April 18, 2000. This screen shot shows the UI displaying the aggregated performance metrics of the members of MyCluster.

Exhibits C-E are copies of media articles pertaining to the release of the beta-2 version of Microsoft's Application Center 2000.

Proprietary information not necessary to show that the claimed subject matter was reduced to practice prior to the effective date of Salzberg-KPMG has been removed from these exhibits.

We hereby declare that all statements made in this Declaration are true to the best of our knowledge and belief.

Respectfully submitted,

  
\_\_\_\_\_  
Federico Garcea

1/20/2006  
Date

\_\_\_\_\_  
Michael S. Murstein

\_\_\_\_\_  
Date

---

Roger W. Sprague

---

Date

---

Alexander M. Sutton

---

Date

---

Michael W. Thomas

---

Date

---

Giedrius Zizys

---

Date



PATENT

MS154756.01/MSFTP125US

CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-14501.

2-2-06  
Date:

Himanshu S. Amin  
Himanshu S. Amin

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of:

Applicant(s): Federico Garcea, *et al.*

Examiner: Haresh N. Patel

Serial No: 09/710,172

Art Unit: 2154

Filing Date: November 10, 2000

Title: SYSTEM FOR GATHERING AND AGGREGATING OPERATIONAL METRICS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

---

**SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. §1.131**

---

Dear Sir:

The undersigned declare as follows:

We are the inventors of the above-identified patent application. The subject matter claimed in the above-identified patent application was reduced to practice in the United States by a date prior to June 26, 2000.

Exhibit A is a copy of a specification document describing some of the features of Microsoft's Application Center 2000. A beta version of this software having these

features was reduced to practice prior to June 26, 2000. As shown in Section 0 "Design Summary" of Exhibit A, the LogQueryHelper component aggregates and formats query results and provides the results to the User Interface (UI). As specified in Section 0.3 "Aggregation" of Exhibit A, "for the cluster view, this includes rolling up results from all servers in the cluster into a single result set." As specified in Section 2.4 "Aggregating Data" of Exhibit A, "for the cluster view, these values matched across a time period need to be rolled." As indicated in the History Section of Exhibit A, this document was created on or before Dec. 8, 1999.

Exhibit B is a copy of Fig. 6A of U.S. Patent No. 6,789,046. This figure is a screen shot of the UI of a beta version of Microsoft's Application Center 2000 that was executing on Microsoft computers on April 18, 2000. This screen shot shows the UI displaying the aggregated performance metrics of the members of MyCluster.

Exhibits C-E are copies of media articles pertaining to the release of the beta-2 version of Microsoft's Application Center 2000.


Proprietary information not necessary to show that the claimed subject matter was reduced to practice prior to the effective date of Salzberg-KPMG has been removed from these exhibits.

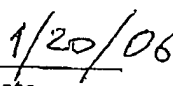
We hereby declare that all statements made in this Declaration are true to the best of our knowledge and belief.

Respectfully submitted,

\_\_\_\_\_  
Federico Garcea

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Michael S. Murstein

  
\_\_\_\_\_  
Date

---

Roger W. Sprague

---

Date

---

Alexander M. Sutton

---

Date

---

Michael W. Thomas

---

Date

---

Giedrius Zizys

---

Date



PATENT

MS154756.01/MSFTP125US

CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-14501.

2-2-06  
Date:

Himanshu S. Amin  
Himanshu S. Amin

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of:

Applicant(s): Federico Garcea, *et al.*

Examiner: Haresh N. Patel

Serial No: 09/710,172

Art Unit: 2154

Filing Date: November 10, 2000

Title: SYSTEM FOR GATHERING AND AGGREGATING OPERATIONAL METRICS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

---

**SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. §1.131**

---

Dear Sir:

The undersigned declare as follows:

We are the inventors of the above-identified patent application. The subject matter claimed in the above-identified patent application was reduced to practice in the United States by a date prior to June 26, 2000.

Exhibit A is a copy of a specification document describing some of the features of Microsoft's Application Center 2000. A beta version of this software having these

features was reduced to practice prior to June 26, 2000. As shown in Section 0 "Design Summary" of Exhibit A, the LogQueryHelper component aggregates and formats query results and provides the results to the User Interface (UI). As specified in Section 0.3 "Aggregation" of Exhibit A, "for the cluster view, this includes rolling up results from all servers in the cluster into a single result set." As specified in Section 2.4 "Aggregating Data" of Exhibit A, "for the cluster view, these values matched across a time period need to be rolled." As indicated in the History Section of Exhibit A, this document was created on or before Dec. 8, 1999.

Exhibit B is a copy of Fig. 6A of U.S. Patent No. 6,789,046. This figure is a screen shot of the UI of a beta version of Microsoft's Application Center 2000 that was executing on Microsoft computers on April 18, 2000. This screen shot shows the UI displaying the aggregated performance metrics of the members of MyCluster.

Exhibits C-E are copies of media articles pertaining to the release of the beta-2 version of Microsoft's Application Center 2000.

Proprietary information not necessary to show that the claimed subject matter was reduced to practice prior to the effective date of Salzberg-KPMG has been removed from these exhibits.

We hereby declare that all statements made in this Declaration are true to the best of our knowledge and belief.

Respectfully submitted,

\_\_\_\_\_  
Federico Garcea

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael S. Murstein

\_\_\_\_\_  
Date



Roger W. Sprague  
Roger W. Sprague

1/20/2006  
Date

\_\_\_\_\_  
Alexander M. Sutton

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael W. Thomas

\_\_\_\_\_  
Date

\_\_\_\_\_  
Giedrius Zizys

\_\_\_\_\_  
Date



PATENT

MS154756.01/MSFTP125US

CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-14501.

2-2-06  
Date:

Himanshu S. Amin  
Himanshu S. Amin

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of:

Applicant(s): Federico Garcea, *et al.*

Examiner: Haresh N. Patel

Serial No: 09/710,172

Art Unit: 2154

Filing Date: November 10, 2000

Title: SYSTEM FOR GATHERING AND AGGREGATING OPERATIONAL METRICS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

---

**SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. §1.131**

---

Dear Sir:

The undersigned declare as follows:

We are the inventors of the above-identified patent application. The subject matter claimed in the above-identified patent application was reduced to practice in the United States by a date prior to June 26, 2000.

Exhibit A is a copy of a specification document describing some of the features of Microsoft's Application Center 2000. A beta version of this software having these

features was reduced to practice prior to June 26, 2000. As shown in Section 0 "Design Summary" of Exhibit A, the LogQueryHelper component aggregates and formats query results and provides the results to the User Interface (UI). As specified in Section 0.3 "Aggregation" of Exhibit A, "for the cluster view, this includes rolling up results from all servers in the cluster into a single result set." As specified in Section 2.4 "Aggregating Data" of Exhibit A, "for the cluster view, these values matched across a time period need to be rolled." As indicated in the History Section of Exhibit A, this document was created on or before Dec. 8, 1999.

Exhibit B is a copy of Fig. 6A of U.S. Patent No. 6,789,046. This figure is a screen shot of the UI of a beta version of Microsoft's Application Center 2000 that was executing on Microsoft computers on April 18, 2000. This screen shot shows the UI displaying the aggregated performance metrics of the members of MyCluster.

Exhibits C-E are copies of media articles pertaining to the release of the beta-2 version of Microsoft's Application Center 2000.

Proprietary information not necessary to show that the claimed subject matter was reduced to practice prior to the effective date of Salzberg-KPMG has been removed from these exhibits.

We hereby declare that all statements made in this Declaration are true to the best of our knowledge and belief.

Respectfully submitted,

\_\_\_\_\_  
Federico Garcea

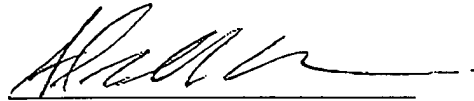
\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael S. Murstein

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roger W. Sprague

\_\_\_\_\_  
Date

\_\_\_\_\_

Alexander M. Sutton

\_\_\_\_\_  
1-23-06  
Date

\_\_\_\_\_  
Michael W. Thomas

\_\_\_\_\_  
Date

\_\_\_\_\_  
Giedrius Zizys

\_\_\_\_\_  
Date



PATENT

MS154756.01/MSFTP125US

CERTIFICATE OF MAILING

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-14501.

2-2-06

Date:

Himanshu S. Amin

Himanshu S. Amin

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of:

Applicant(s): Federico Garcea, *et al.*

Examiner: Haresh N. Patel

Serial No: 09/710,172

Art Unit: 2154

Filing Date: November 10, 2000

Title: **SYSTEM FOR GATHERING AND AGGREGATING OPERATIONAL METRICS**

**Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

---

**SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. §1.131**

---

Dear Sir:

The undersigned declare as follows:

We are the inventors of the above-identified patent application. The subject matter claimed in the above-identified patent application was reduced to practice in the United States by a date prior to June 26, 2000.

Exhibit A is a copy of a specification document describing some of the features of Microsoft's Application Center 2000. A beta version of this software having these

features was reduced to practice prior to June 26, 2000. As shown in Section 0 "Design Summary" of Exhibit A, the LogQueryHelper component aggregates and formats query results and provides the results to the User Interface (UI). As specified in Section 0.3 "Aggregation" of Exhibit A, "for the cluster view, this includes rolling up results from all servers in the cluster into a single result set." As specified in Section 2.4 "Aggregating Data" of Exhibit A, "for the cluster view, these values matched across a time period need to be rolled." As indicated in the History Section of Exhibit A, this document was created on or before Dec. 8, 1999.

Exhibit B is a copy of Fig. 6A of U.S. Patent No. 6,789,046. This figure is a screen shot of the UI of a beta version of Microsoft's Application Center 2000 that was executing on Microsoft computers on April 18, 2000. This screen shot shows the UI displaying the aggregated performance metrics of the members of MyCluster.

Exhibits C-E are copies of media articles pertaining to the release of the beta-2 version of Microsoft's Application Center 2000.

Proprietary information not necessary to show that the claimed subject matter was reduced to practice prior to the effective date of Salzberg-KPMG has been removed from these exhibits.

We hereby declare that all statements made in this Declaration are true to the best of our knowledge and belief.

Respectfully submitted,

\_\_\_\_\_  
Federico Garcea

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael S. Murstein

\_\_\_\_\_  
Date

---

Roger W. Sprague

---

Date

---

Alexander M. Sutton

---

Date

---

*Michael W. Thomas*  
Michael W. Thomas

---

2/1/2006  
Date

---

Giedrius Zizys

---

Date



**PATENT**

**MS154756.01/MSFTP125US**

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-14501.

2-2-06  
Date:

Himanshu S. Amin  
Himanshu S. Amin

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of:

Applicant(s): Federico Garcea, *et al.*

Examiner: Haresh N. Patel

Serial No: 09/710,172

Art Unit: 2154

Filing Date: November 10, 2000

Title: SYSTEM FOR GATHERING AND AGGREGATING OPERATIONAL METRICS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

---

**SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. §1.131**

---

Dear Sir:

The undersigned declare as follows:

We are the inventors of the above-identified patent application. The subject matter claimed in the above-identified patent application was reduced to practice in the United States by a date prior to June 26, 2000.

Exhibit A is a copy of a specification document describing some of the features of Microsoft's Application Center 2000. A beta version of this software having these



features was reduced to practice prior to June 26, 2000. As shown in Section 0 "Design Summary" of Exhibit A, the LogQueryHelper component aggregates and formats query results and provides the results to the User Interface (UI). As specified in Section 0.3 "Aggregation" of Exhibit A, "for the cluster view, this includes rolling up results from all servers in the cluster into a single result set." As specified in Section 2.4 "Aggregating Data" of Exhibit A, "for the cluster view, these values matched across a time period need to be rolled." As indicated in the History Section of Exhibit A, this document was created on or before Dec. 8, 1999.

Exhibit B is a copy of Fig. 6A of U.S. Patent No. 6,789,046. This figure is a screen shot of the UI of a beta version of Microsoft's Application Center 2000 that was executing on Microsoft computers on April 18, 2000. This screen shot shows the UI displaying the aggregated performance metrics of the members of MyCluster.

Exhibits C-E are copies of media articles pertaining to the release of the beta-2 version of Microsoft's Application Center 2000.

Proprietary information not necessary to show that the claimed subject matter was reduced to practice prior to the effective date of Salzberg-KPMG has been removed from these exhibits.

We hereby declare that all statements made in this Declaration are true to the best of our knowledge and belief.

Respectfully submitted,

\_\_\_\_\_  
Federico Garcea

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael S. Murstein

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roger W. Sprague

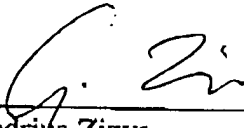
\_\_\_\_\_  
Date

\_\_\_\_\_  
Alexander M. Sutton

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael W. Thomas

\_\_\_\_\_  
Date


  
\_\_\_\_\_  
Giedrius Zizys

01/20/2006

\_\_\_\_\_  
Date

# Exhibit "A"

1

↑	LogQueryHelper			
	program management	<u>Alex Sutton</u>	created	
	development	<u>Giedrius Zizys</u>	last updated	5/22/2001
	test	<u>ZhengpingZuo</u>	status	final
	documentation	<u>Jim Morey</u>		
	localization	n/a		

## 0. Design Summary

The LogQueryHelper component provides log data to the ACS UI to populate the Performance Viewer and Event Viewer pages. It is invoked by the Admin ASP, which calls a method specific to the data desired and passes the user's query parameters.

LogQueryHelper then has 4 tasks:

- Set appropriate connection strings for the query (server or cluster members)
- Build and pass SQL query
- Aggregate and format the query results
- Return the results and status for each server to the UI

Caching and other optimizations may be necessary based upon performance of LogQuery and LogQueryHelper.

### 0.3 Aggregation

After results are returned from LogQuery, the LogQueryHelper component needs to put them in the format specified by the UI. For the cluster view, this includes rolling up results from all servers in the cluster into a single result set.

Where no data points are returned from the server, a VARIANT of type VT\_EMPTY should be returned to the UI.

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**



**THIS PAGE BLANK (USPTO)**

## 2.4 Aggregating Data

Two things need to happen to the results returned from each server. Data points for each counter need to be matched up across time, with -1 used for periods with no data (the UI will not plot these).

And for the cluster view, these values matched across a time period need to be rolled. The ClusterAggregation method is specified for each counter in the Counters table. Values are:

- 0= None
- 1= Average
- 2= Sum
- 3= Last
- 4= Min
- 5= Max

If cluster aggregation value is 0, the counter values returned for cluster view should be -1.

The first column in the CounterValues array should be time stamp.

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**

**THIS PAGE BLANK (USPTO)**



## History

Date	changes made	program manager
12/8/99	Stable	asutton
9/4/00	Cleaned up and migrated to new format	asutton

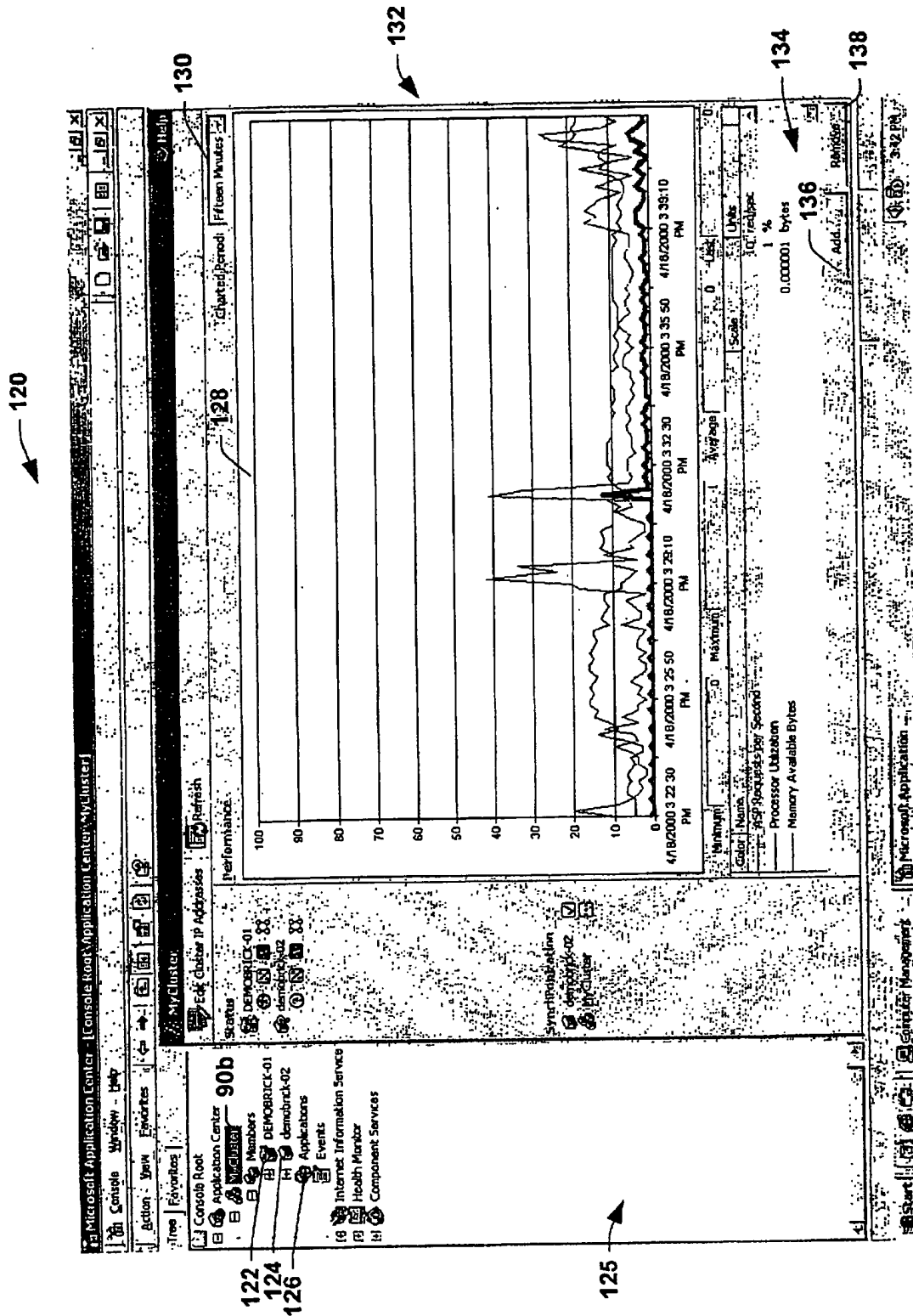


Fig. 6a

Be fully Prepared for your

Transcend

Sign Up! FREE Redmond Report Newsletter

FREE Print Subscription | Newsletters |

# Redmondmag.com

THE INDEPENDENT VOICE OF THE MICROSOFT IT COMMUNITY

November 26, 2005

Listen, See, Win! Tech Library Webcasts

redmondma

News

[Home](#) [Redmond Report News](#) [Archive](#) [List of Articles by Month](#)

FindIT Code

Enter Here:

Partner Sh

• NEW PDF: Man  
and Simplify with  
Policy.

Redmond Report  
News Archive

Current Issue

Product Reviews

Columns

Features

Tech Library

Tech Portals

Forums

Your Turn

Newsletters

Subscribe/Renew

About Us

Redmond Radio

Salary Surveys

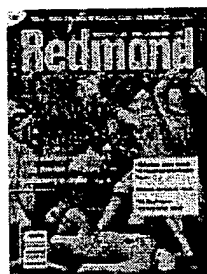
RSS Feeds

Site Map

Search

go

FREE MAGAZINE  
SUBSCRIPTION



Redmond

Let us know

what you think!

Click [HERE](#)

VISIT  
**Redmond**  
MEDIA GROUP

## News Archive

### December 2000

- 12/14/00 It's Official! NT 4.0 Exams Retirement Delayed Two Months
- 12/13/00 70-240 Accelerated: "The Day After" with Andy Barkl
- 12/8/00 Windows 2000: One Year Later
- 12/8/00 Microsoft May Extend Deadline on NT 4.0 Exams
- 12/8/00 Microsoft May Extend Deadline on NT 4.0 Exams

### November 2000

- 11/30/00 Microsoft Beta Tests ISA Server Exam in January
- 11/30/00 Details on Continuing Education Credits for MCTs
- 11/30/00 Wraps Come Off Commerce Server 2000 in December
- 11/29/00 Seeking Exchange and SQL Test Reviewers
- 11/27/00 Microsoft Files Brief to Overturn Antitrust Judgement
- 11/20/00 Of Note at CertCities.com This Week...
- 11/17/00 Beta Exams: What Do You Think?
- 11/17/00 Migrating to Win2K Exam Delayed to December
- 11/15/00 Clustering Exam Goes Live
- 11/13/00 Comdex Special Report: Microsoft Releases Visual Studio.NET, .NET Framework Betas
- 11/8/00 MCP Magazine's Discussion Forums are Back!

### October 2000

- 10/31/00 Whistler Beta 1 Sent to Testers
- 10/30/00 Clustering Exam To Go Live Nov. 15
- 10/30/00 Early Adopters Get ISA Release Candidate 2
- 10/27/00 Microsoft Acknowledges, Issues Statement on Security Breach
- 10/27/00 Microsoft .NET Servers Extend into Document Management, Collaboration
- 10/25/00 Microsoft's New Certification Program for ISVs, ASPs
- 10/12/00 Microsoft Adds Management Services to .NET
- 10/4/00 MCP Beta Exams By Invitation-Only

PRINT

Click on month to view articles:

- November 2005
- October 2005
- September 2005
- August 2005
- July 2005
- June 2005
- May 2005
- April 2005
- March 2005
- February 2005
- January 2005
- December 2004
- November 2004
- October 2004
- September 2004
- August 2004
- July 2004
- June 2004
- May 2004
- April 2004
- March 2004
- February 2004
- January 2004
- December 2003
- November 2003
- October 2003
- September 2003
- August 2003
- July 2003
- June 2003
- May 2003
- April 2003
- March 2003
- February 2003
- January 2003
- December 2002
- November 2002
- October 2002
- September 2002
- August 2002
- July 2002

WE'VE  
MADE  
LIFE  
EASIER

Easy to i

Easy to ad

Easy to n

re

Participat  
Web Sen  
and you can  
FREE 1000

Ads by GoogleOptical Thin Film Coating

Filters, Mirrors,  
Gradients Custom  
design and mfg  
www.ReynardCorp.com

Supreme Courts

Progressive Guide and  
Analysis on Judges  
and the Courts  
www.AmericanProgress.o

**September 2000**

- 9/28/00 **Microsoft's Annual Report Touts .NET Initiative**
- 9/26/00 **Microsoft Case Heads Back to Lower Court**
- 9/26/00 **Microsoft's .NET Enterprise Server Line In Detail**
- 9/21/00 **3 p.m. Today! Working for a Dot-Com**
- 9/18/00 **Writers and Speakers Wanted: Do You Know Exchange Inside Out?**
- 9/14/00 **Now Live! Win2K Foundations Chat in #PA1**
- 9/7/00 **MCP TechMentor, Day One: More Details of .NET Revealed**
- 9/5/00 **Microsoft Releases Exchange 2000 to Manufacturing**
- 9/5/00 **Microsoft Application Center 2000 Goes to Beta 2**

**August 2000**

- 8/23/00 **Win2K Clustering Exam Heads to Beta**
- 8/22/00 **Update: Microsoft Repeats Lower Court Review Request**
- 8/11/00 **Microsoft Releases Datacenter to Manufacturers**
- 8/10/00 **SQL Server 2000 Goes "Gold"**
- 8/10/00 **Today at 4 pm Pacific! "Win2K Foundations" Chat with Harry Brelsford**
- 8/2/00 **Application Center 2000 Beta Now Open to Public**
- 8/1/00 **Windows 2000 Service Pack 1 Arrives**

- June 2002
- May 2002
- April 2002
- March 2002
- February 2002
- January 2002
- December 2001
- November 2001
- October 2001
- September 2001
- August 2001
- July 2001
- June 2001
- May 2001
- April 2001
- March 2001
- February 2001
- January 2001
- December 2000
- November 2000
- October 2000
- September 2000
- August 2000
- July 2000
- June 2000
- May 2000
- April 2000
- March 2000
- February 2000
- January 2000
- December 1999
- November 1999
- October 1999
- September 1999
- August 1999
- July 1999
- June 1999
- May 1999
- April 1999
- March 1999
- February 1999
- January 1999
- December 1998
- November 1998
- October 1998
- September 1998
- August 1998
- June 1998
- May 1998
- April 1998
- March 1998
- February 1998

 **PRINT**



**TECH LIB  
WEBCA**

**Today  
Most Pop  
Article**

1. What's New
2. Editors' Choi  
Thumbs Up!
3. Software Cr
4. Microsoft Err  
Carded
5. Password Pc  
Right
6. Redmond Re
7. Time To Get
8. Automate Th
9. Windows Le:  
Office Team
10. Enter a New  
Virtualization

-- advertise

**Traveling  
a Tradeshow**

Low cost hotels  
Discount Hotels  
Hotels In Hazle  
discount Toront  
Drury Inn Suite  
BirminghamSA  
Hotels Lake Bu  
FL  
Hotels Palm Be  
Gardens FL  
Las Vegas Disc  
La Quinta Inn &  
SpaceCenter  
Pittsburgh PA  
Corpus Chisti  
Hotels

**Sponsored Links****Migrating from GroupWise to Exchange 2003?**

Simplify migration with Quest's technical brief. Download now.

**FREE Download**

Monitor your ENTIRE infrastructure with one solution

**Stay Connected**

a guide to eliminating downtime & protecting productivity.

**FREE**

Oracle Database 10g for Windows Resource Kit

**Discover the potential of iSCSI storage solutions**

**CommVault QiNetix**

The Real, Unified Data Management

**Get PatchLinks's**

Advanced Security Patch & Vulnerability Management Strategy White Paper today!

**User and Group Entitlement Reporting**

Free Resource from BindView

**Learn online or learn in person**

With Citrix Education, the choice is yours.

**Software Development**

just got faster with VMware's VMTN Subscription

**Check your security compliance with**

FREE Compliance Assessment Tool.

**Get Ahead by Getting Certified**

Dependable Certification Training from PrepLogic

**True Cost of Unplanned Exchange Server Downtime**

w/ Gartner Analyst Matt Cain

**Keep Current on Microsoft News**

Subscribe to Redmond Report Newsletter

**The Unified Compliance Summit**

Feb. 22-23, 2006, Las Vegas, NV

**New HIPAA Whitepaper**

How is your IT dept. affected?

**Microsoft Computer Software Training**

Microsoft Self-Study CDs

TOP

**1 is greater than 3**

The new formula for success in the data center



Home | [Subscribe/Renew](#) | [About Us](#) | [Contact Us](#) | [Contributors](#) | [2005 Media Kit](#) | [Tech Library](#) | [RSS Feeds](#) **R9**  
[Issue Archive](#) | [Columns](#) | [Current Issue](#) | [Features](#) | [Forums](#) | [News](#) | [Tech Portals](#) | [Tech Library Webcasts](#)  
[Product Reviews](#) | [Redmond Radio](#) | [Salary Surveys](#) | [Search](#) | [Site Map](#)

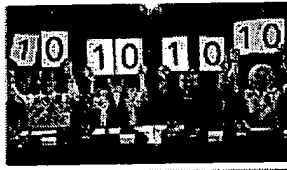
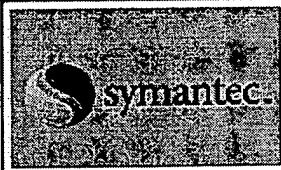
For reprint information, click [here](#).

[Application Development Trends](#) | [Campus Technology](#) | [CertCities.com](#) | [The Data Warehousing Institute](#)  
[E-Gov](#) | [EduHound](#) | [ENTmag.com](#) | [Enterprise Systems](#) | [Federal Computer Week](#) | [Government Health IT](#)  
[IT Compliance Institute](#) [JavaSPEKTRUM](#) | [MCPmag.com](#) | [OBJEKTspektrum](#) | [Recharger](#) | [Redmond](#) magazine  
[Redmond Channel Partner](#) | [SIGS-DATACOM](#) | [TCPmag.com](#) | [T.H.E. Journal](#) | [TechMentor Conferences](#)

*Redmond Channel Partner* magazine. Get a free subscription.

Copyright 1996-2005 101communications. See our [Privacy Policy](#).

**101**communications



Backup Exec 10d. DESIGNED FOR DISK.  
Download trial version



HOME

NEWS

TEST CENTER

OPINIONS

PRODUCT GUIDE

TECHINDEX

SEA

## NEWS

# Application Center scales e-business

By James R. Borck, InfoWorld Test Center  
September 1, 2000

CLUSTERING technology, which allows multiple stand-alone computing systems to function as a single virtual machine, has become a powerful ally in the fight for e-commerce application scalability and availability. In a nutshell, clustering boosts performance through better load balancing, which means your customers won't wait as long to access your business applications.

### SPONSOR

FREE SOA WHITE PAPER:  
"Deliver Immediate Value  
Through SOA"

Sponsored by Flashline

### RELATED LINKS

#### IDG ENTERPRISE NETWORK

- Cisco's version of the future of secure networks (TechWorld)
- Microsoft roars into VoIP market (TechWorld)

### TOP NEWS

- EU seeks to limit data retention rules to one year
- Samsung may face probe on Apple memory deal
- Mitrix lands first customer for hosted SCM system
- Wall Street Beat: Tech rallies as holidays arrive

IT SOLUTION SEARCH

With Windows 2000, Microsoft offers very impressive clustering and load-balancing capabilities. Companies looking to get in on this business-boosting action should check out Microsoft's Application Center 2000, a Web-scaling management tool that allows easy set-up and configuration of server arrays (clusters).

Application Center is critical for the enterprise deployment of Windows 2000 on the .NET platform. Implementing this product will dramatically improve application availability and speed. And with this product, you can package and roll out application updates to every server in the array as easily as if you were working with a single computer.

The most recent version of Application Center, Beta 2 offers basic clustering and monitoring capabilities with self-healing automation to keep performance in peak condition. The tool also boasts easy synchronization of servers and simple COM+ application rollouts.

Application Center provides interfaces to all management and monitoring functions via a Microsoft Management Console snap-in, a Web browser, or a CLI (Command Line Interface) through which scripting adds automated functionality.

The product's wizard-driven routines enable quick setup, synchronization, and modification of cluster members. You can also add servers, configure load balancing, and deploy applications with minimal technical expertise.

Application Center's monitoring and data collection tools delivered informative metrics on the aggregate health of our clusters. By setting threshold rules, we could preset error conditions, such as CPU utilization or server failure, that triggered immediate alert notifications.

In fact, because it is equipped with event-response aptitude, Application Center takes notification and automated correction to new levels. The product can trigger built-in commands, as well as external programs and VBScripts that mechanize processes, such as restarting downed servers. These favors will do wonders to improve application performance and reduce support costs.

### ADVERTISEMENT

**IBM E-MAIL SECURITY SOLUTIONS**  
**FROM \$1.80 PER EMAIL ADDRESS**  
**30-DAY TRIAL**

◀ LEARN MORE



The product offers support for Windows 2000 Network Load Balancing and Component Load Balancing (CLB) to move COM+ work to dedicated servers for better system performance.

Although CLB was originally seen in Windows 2000, it lacked deployment, management, and monitoring capabilities. With the help of Application Center 2000, though, CLB is now a truly valuable tool.

Across the board, Application Center delivers reliable, timesaving features that will benefit businesses of any size. The product may offer particular perks to small or midsize companies that lack the staff or skills typically required for this breed of deployment.

On the downside, although integration for third-party tools is available through Microsoft's API, the number of vendors currently integrating can be counted on the fingers of a bad wood shop teacher.

Nonetheless, Application Center's potential is evident and exciting. Microsoft's first-generation foray into Windows 2000 cluster management appears to not only be a success, but will play an important role in shaping Microsoft's e-commerce viability for the future.

James R. Borck (james\_borck@infoworld.com) covers e-business technologies for the Test Center.

## BOTTOM LINE

### Application Center 2000, Beta 2

#### BUSINESS CASE

Clustering improves application scalability and ensures business-critical resource availability. With App Center, corporations can roll out applications to entire server farms as easily as updating a single system.

#### TECHNOLOGY CASE

With this Web-scaling management tool, clustering and managing server arrays is a wizard-driven process that requires very little tech expertise.



#### PROS

- + Load-balanced, scaled applications
- + Easy rollout of application updates
- + Simplified cluster management
- + Informative cluster performance and health monitoring

#### CONS

- Limited number of vendors integrating it as a third-party tool

#### COST

Anticipated cost, \$2,999

#### PLATFORMS

Windows 2000

#### SHIPPING DATE

Expected before end of 2000

#### COMPANY

Microsoft Corp., Redmond, Wash.; (800) 426-9400; [www.microsoft.com/servers](http://www.microsoft.com/servers)

#### RELATED SUBJECTS

- Middleware
- Servers
- Network/System Management

## SPONSORED WHITE PAPERS

**EMC** - Lower costs and improve reliability-Get the EMC CLARiiON white paper!  
**Ciphertrust** - Are you ready for Sobig.G? Learn how to protect your email systems.  
**CDW** - Personal attention. CDW. The Right Technology. Right Away.  
**EMC** - Explore key performance features and capabilities of EMC ControlCenter 5.1.1.  
**Intel** - Free Intel white paper shows you how to deploy a secure wireless LAN  
**Cisco** - FREE WHITE PAPER: BLUEPRINT to design and implement secure VPNs  
**Verity, Inc.** - "Mass Consolidation Hits the Web-Search Market"  
**McDATA** - Download a FREE storage consolidation white paper from McDATA(R).  
**Lucent Technologies** - Overcoming Common Firewall Limitations  
**Lucent Technologies** - Leverage Your Mobile High Speed Data Access. Download Free White Paper!  
**Nokia** - Get the scoop! Mobilizing business white papers & case studies.  
**BMC Software** - Maximize the Potential of Enterprise Data: Free white paper!  
**Network Associates** - Free white paper - Strategies for Optimizing Network Costs and Benefits  
**Entrust** - Manage identities across applications. Improve productivity.  
**Stalker Software** - CommuniGate Pro - Transform your Email and Calendaring  
**Remedy** - A NEW Gartner Research Note:Producing Quality IT Services

Search the IDG White Paper Library:



## SPONSORED LINKS

- » **SSA Global** - Start responding to customer demand in real time. Now.
- » **EMC** - Watch the free Webcast "High Availability with EMC Software"
- » **Citrix NetScaler** - Citrix NetScaler Webcast: Trends in Application Acceleration
- » **Citrix NetScaler** - FREE Performance Report: 15x faster apps with Citrix NetScaler
- » **Verisign** - VeriSign SSL Certificates secure e-commerce transactions.

## INFOWORLD MARKETPLACE

» **TechExcel HelpDesk Software Suite**  
 With both Windows and Web user interfaces, TechExcel HelpDesk provides powerful solutions for help ...  
 » **Extract Greater Value from Your Data**  
 Your data is the engine that drives your business. Let the Experts at IBM help you put the ...  
 » **Learn how to Fuel Growth while Containing Costs**  
 Let the experts at IBM optimize your IT Investments to drive business growth objectives. Click to ...  
 » **Free Trial: BPM Process Modeling for your Business**  
 Savvion's Process Modeler provides comprehensive BPM from modeling to process execution and ...  
 » **Design Databases with ER/Studio: Free Trial**  
 ER/Studio delivers next-generation data modeling. Multiple, distinct physical models based on a ...

>> BUY A LINK I

[HOME](#) | [NEWS](#) | [TEST CENTER](#) | [OPINIONS](#) | [PRODUCT GUIDE](#) | [TECHINDEX](#) | [About](#) : [Advertise](#) : [Subscribe](#) : [Contact Us](#) : [Awards](#) : [Events](#)

Copyright © 2005, Reprints, Permissions, Licensing, IDG Network, Privacy Policy

All Rights reserved. InfoWorld is a leading publisher of technology information and product reviews on topics including viruses, phishing, wor  
firewalls, security, servers, storage, networking, wireless, databases, and web services.

Computerworld :: Network World :: CIO :: PC World :: Darwin :: CMO :: CSO :: Bio-IT World  
 IT Careers :: JavaWorld :: Macworld :: Mac Central :: Playlist :: GamePro :: GameStar :: Gamerhelp  
 ITWorld Canada :: Computerwoche :: Techworld UK :: tecChannel :: IDG.se :: IDG.no



You are here: [About](#) > [Computing & Technology](#) > [Focus on Windows](#)

you can get it on **ebay**

Search

## About

### Computing & Technology

#### Focus on Windows

##### Essentials

Windows XP Service Pack 2  
Get Help in the Forum  
Newcomers Tips  
Historical Timeline for Win XP/2000/NT  
Backing Up WinXP Registry

##### Articles & Resources

Tips Archive  
Start Here-Intro to Windows  
Security  
Files, Folders, Disks  
Printing  
Administration for Experts  
Installation & Deployment  
Customizing Windows  
Users & Domains  
Networking  
Windows for Business  
My Favorite Stuff

##### Buyer's Guide

Before You Buy  
Top Picks  
Antivirus Software  
Defrag Utilities  
Windows XP  
Product Reviews

##### Forums

##### Help

### FREE Newsletter

Sign Up Now for the Focus on Windows newsletter!

Enter email address

 Sign Up

[See Online Courses](#)

### Focus on Windows

## Historical Timeline - 2000

[<Back to Last Page>](#) [<Introduction>](#)

**January 1:** The world survives the rollover to 00.

**January 5:** Microsoft unveils IE 5 for the Mac at Macworld Expo in San Francisco.

**January 14:** US Federal Government relaxed encryption export law, allowing exportation of software using 128-bit encryption.

**February 17:** Windows 2000 is officially launched in Professional, Server, and Advanced Server versions.

**February 22:** Microsoft offers Release Candidate 1 of Exchange Server 2000, and also announces Exchange 2000 Conferencing Server.

**March 2:** Microsoft releases Windows-Based Terminal (WBT) Standard 1.5.

**March 14:** Over 1 million copies of Windows 2000 sold.

**March 15:** Microsoft announces IPv6 Technical Preview for Windows 2000.

**March 27:** Microsoft announces Windows Media Player 7.0.

**April 3:** Microsoft releases Windows Services for UNIX 2.0.

**April 4:** Microsoft releases Visio 2000, Service Release 1.

**April 11:** Microsoft begins availability of TechNet on DVD.

**April 24:** Microsoft releases Beta 2 of SQL Server 2000.

**April 25:** Microsoft Announces Windows CE 3.0 and New Development Tools At WinHEC 2000.

#### Other Years

- [2004](#)
- [2003](#)
- [2002](#)
- [2001](#)
- **2000**
- [1999](#)
- [1998](#)
- [1997](#)
- [1996](#)
- [1995](#)
- [1994](#)
- [1993](#)
- [1992](#)
- [1991](#)
- [1990](#)
- [1980's](#)
- [1970's & earlier](#)

Advertiser



**They  
Married**



**Find Your  
School Here**

— City —

— State —

Search



**classmates**

#### Most Popular

[Windows XP Service Pack 2 Installation and Download](#)  
[Windows XP Advanced System Recovery Backup Utility for Home](#)  
[Windows XP Service Pack 1 Installation and Download](#)

**May 15:** Microsoft unveils IE for Mac OS X

Desktop Part 1:  
up

**May 23:** Microsoft releases Beta 2 of Windows 2000 Datacenter Server.

**June 6:** Public Beta for Internet Security and Acceleration Server 2000 (ISA Server 2000) begins.

**June 19:** Windows Millennium Edition (Windows ME) released to Manufacturing.

**June 20:** SMS 2.0 Service Pack 2 released.

**June 22:** Microsoft announces "Windows .NET"

**June 27:** Windows 2000 sales hit 3 million.

**June 28:** Microsoft releases Beta of Commerce Server 2000.

**June 28:** Microsoft Releases Windows 2000 Terminal Services Advanced Client.

**July 6:** Windows Services for Netware version 5.0 (SFN5) released.

**July 12:** IE 5.5 released.

**July 14:** Small Business Server 2000 enters Beta 1.

**July 17:** Compaq becomes first systems manufacturer to be certified for Windows 2000 Datacenter Program for Windows 2000 Datacenter Server.

**July 19:** Microsoft Unveils Office 2001 for Mac.

**July 20:** MSN Messenger 3.0 released.

**July 31:** Service Pack 1 for Windows 2000 released.

**August 2:** Application Center 2000 enters Beta 2.

**August 7:** SQL Server 2000 released to manufacturing.

**August 11:** Microsoft Ships Windows 2000 Datacenter Server to Program Partners.

**August 14:** Microsoft announces Beta 1 of Biztalk Server 2000.

**August 31:** MSN announces Preview 2 of MSN Explorer (a competitor to IE?).

**September 14:** Windows ME available.

**October 9:** MSN Explorer browser released.

**October 11:** Exchange Server 2000 launches.

**October 31:** Beta 1 of "Whistler" (next version after Windows 2000) released.

**November 2:** Service Pack 1 for IE 5.5 released.

**November 9:** Microsoft releases DirectX version 8.0.

**November 20:** Intel introduces the Pentium IV processor.

**December 12:** BizTalk Server 2000 Released to Manufacturing.

**December 15:** Microsoft extends deadline for completing NT 4.0 exams through the end of February.

**December 18:** Microsoft Announces Release of "Whistler Embedded" Beta 1.

**December 21:** Microsoft to acquire Great Plains Software, Inc.

**Date Unknown:** Intel releases Pentium 4.

Sources:

1 - [Microsoft Press Pass](#)

**Disclaimer:** I have taken every effort to research and credit the original source of this information. However, I cannot guarantee that all of the dates and information are complete or correct.

[<Back to Last Page>](#) [<Introduction>](#)



Apply Now

From [Apply Now](#),  
Your Guide to [Focus on Windows](#).  
**FREE** Newsletter. [Sign Up Now!](#)

#### Most Popular Articles

[Windows XP Service Pack 2 Installation and Download](#)

[Windows XP Automated System Recovery](#)

[Windows XP Service Pack 1 Installation and Download](#)

[Backup Utility for WinXP Home](#)

[Hotmail with Outlook Express](#)

[Topic Index](#) | [Email to a Friend](#) | [Bookmark this Site](#) | [Make this Site Your Homepage!](#)



